



CAIT

Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

QUARTERLY PROGRESS REPORT

Project Title:	Estimation of Truck Volume and Flows		
RFP NUMBER: NJDOT 2001-18	NJDOT RESEARCH PROJECT MANAGER: Nicholas Vitillo		
TASK ORDER NUMBER/Study Number: 116 / 4-26855	PRINCIPAL INVESTIGATOR: Maria Boilé		
Study Start Date: 01/01/2002 Study End Date: 12/31/2003	Period Covered: 2 nd Quarter 2003		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Literature Search	6%	-	100%	6%
Task 1 Data collection	8%	-	100%	8%
Task 2 List of major truck generating facilities	8%	-	100%	8%
Task 3 Criteria or factors that influence changes in truck flow	10%	-	100%	10%
Task 4 Relationships between ADT and truck volumes	16%	20%	75%	12%
Task 5 Methods to estimate truck flow and truck percentages	17%	15%	30%	5.1%
Task 6 Validate the estimation method on a selection of 12 routes	17%	15%	15%	2.55%
Task 7 Apply methodology on a statewide basis	8%	0%	0%	0%
Task 8 Quarterly progress and final reports	10%	10%	50%	5%
TOTAL	100%			56.65%

1. Progress this quarter by task:

Task 3 –The 12 roadway segments to be examined in this project have been selected based on data availability and representation of the roadway types specified in the RFP. The criteria and factors that influence changes in truck flow, which had been decided upon during the last meeting with the RSIP have been applied to the aggregation of the twelve roadway segments.

Task 4 – The initial dataset has been updated to include new employment related information. The statistical analysis was performed again. Several models have been tested and their statistical significance has been determined. Sensitivity analysis is also being performed. A final report on this task is being produced and will be submitted for review by the RSIP by the end of June.

Task 5 – Truck volumes and percentages have been estimated for the twelve roadway sections. The profile of these data for each of the roadways has been drawn and has been related to the criteria and factors that have been developed under task 3. These data are further analyzed to determine whether any general observations can be made regarding the relationship between the criteria and factors on one hand, and the observed volumes and truck

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percentages on the other. Furthermore, a method for estimating truck volumes based on the observed traffic on some sections of the network is being developed within a GIS framework.

Task 6 – A method for assessing the accuracy and validity of the results to be produced under tasks 4 and 5 is being devised.

2. Proposed activities for next quarter by task

The statistical analysis of Task 4 will be finalized and the results and findings will be presented in a technical report. In addition the methods and types of analyses that have been developed in Task 5 will be applied to the twelve roadway sections and the results will be presented in a technical report.

3. List of deliverables provided in this quarter by task (product date)

The final draft of the literature review and the revised technical reports on Tasks 1, 2 and 3 will be submitted by June 15.

4. Progress on Implementation and Training Activities

N/A

5. Problems/Proposed Solutions

N/A

6. Budget Summary*

Total Project Budget(# of years)	2 Years	\$ 198,508.00
Total Project Expenditure to date		\$111,195
% of Total Project Budget Expended		56%
Task Order Number/Study Number:		116 / 4-26855
Current Task Order Budget (# of years)	Year 1 and 2	\$ 198,508.00
Actual Expenditure to date against current task order		\$111,195
% of current task order budget expended		56%

* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.